

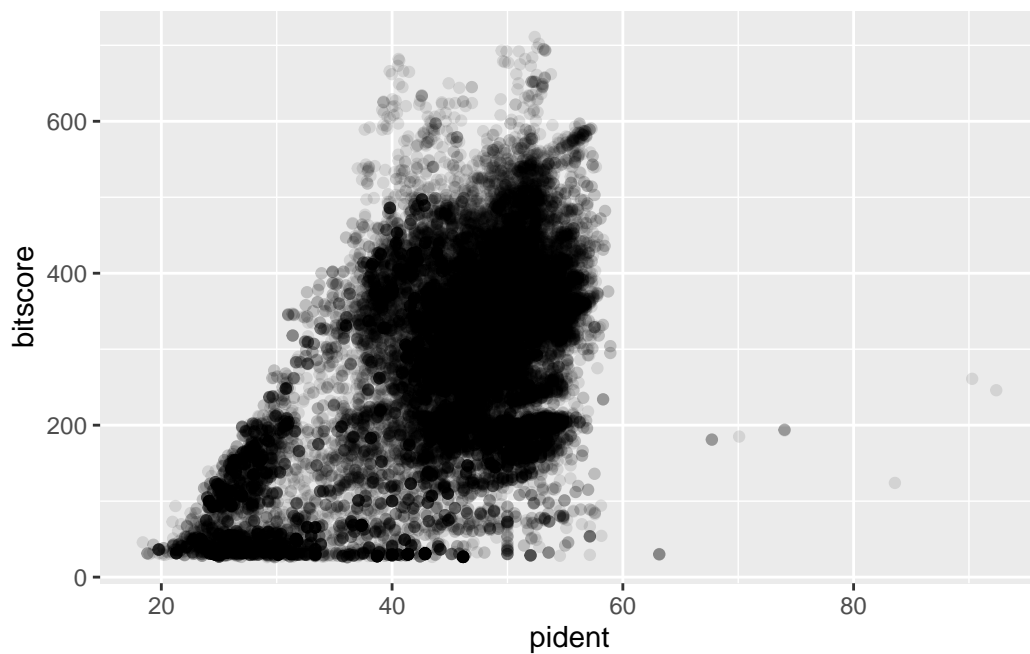
# Lab 16

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```
b <- read.table("my_results.tsv")

colnames(b) <- c("qseqid", "sseqid", "pident", "length", "mismatch", "gapopen", "qstart", "qend", "sstart", "send")

library(ggplot2)
ggplot(b, aes(pident, bitscore)) + geom_point(alpha=0.1)
```



```
ggplot(b, aes((b$pident * (b$qend - b$qstart)), bitscore)) + geom_point(alpha=0.1) + geom_smooth()
```

Warning: Use of `b\$pident` is discouraged.  
i Use `pident` instead.

Warning: Use of ``b$qend`` is discouraged.  
i Use ``qend`` instead.

Warning: Use of ``b$qstart`` is discouraged.  
i Use ``qstart`` instead.

Warning: Use of ``b$pident`` is discouraged.  
i Use ``pident`` instead.

Warning: Use of ``b$qend`` is discouraged.  
i Use ``qend`` instead.

Warning: Use of ``b$qstart`` is discouraged.  
i Use ``qstart`` instead.

``geom_smooth()`` using method = 'gam' and formula = 'y ~ s(x, bs = "cs")'

